

Leading SGI
Archive Technology
Consolidated into an
Easy-to-Deploy, Fully-
Integrated Solutions

KEY FEATURES

Fully Integrated File-based
Archiving solution

Over 1.4PB usable archive
space in a single rack

Easy archive consolidation
across multiple
environments

Proactive protection to
ensure long-term data
integrity and availability

Extremely low power
consumption combined
with high density to reduce
operational impact

SGI ArcFiniti™

Easy to Deploy Integrated Archive Solution

ArcFiniti brings the best of SGI's powerful data management software tools and scalable hardware together for the first time in a fully-integrated archive solution aimed specifically at providing an easily accessible solution to the problem of unparalleled growth of unstructured file-based data. The lack of an easily manageable long-term archive solution has caused growing difficulties in data centers of every industry, as expensive active storage is increasingly filled with inactive data. The resulting pressure on backup and data recovery, as well as the sheer cost of using active storage for inactive, yet still valuable data is the sweet spot for which ArcFiniti is ideal.

Low Cost and Long Term Protection

ArcFiniti provides high-performance network access with a disk-based archive solution that offers performance, accessibility and long-term data integrity advantages over tape. Leveraging unique SGI technology to significantly reduce power consumption and ensure data integrity, ArcFiniti can be ordered in 5 different factory-integrated configurations, ranging from 156TB to 1.4PB of usable archive storage in a single rack before compression. This results in significant infrastructure savings over conventional archive systems, while also providing users with easy, immediate access to archived data to users.

The ArcFiniti solution is designed not only to house archived data, but protect it for the long term. With features such as proactive health monitoring of hardware and data integrity checking, ArcFiniti ensures that archival data is accessible and valid for a dramatically longer lifecycle than traditional disk or tape solutions. If ArcFiniti detects any potential disk drive problems, it proactively migrates data and verifies data integrity while alerting administrators to replace the faulty part.. This dramatically reduces the need to take the system offline for costly RAID rebuilds due to disk errors.



Virtualized Tiers for Better Performance and Control

As a fully integrated solution, ArcFiniti is designed to be easy to deploy and easy to use. Users can access ArcFiniti via high-performance network connections for high-volume throughput into its primary disk cache. This cache is virtualized to the archive tier and managed in the background by an automated archive policy engine. All files are always in an available online state to users, with ArcFiniti ensuring that archive content is protected for long-term retention on the most cost-effective storage tier.

Mitigate Risk, Reduce Costs, Improve Productivity

As a complete archiver, ArcFiniti is a fully realized solution that brings to the general IT market an easy-to-deploy package featuring SGI's powerful suite of hardware and software tools, which power some of the world's largest archives.

With ArcFiniti you have a revolutionary alternative to both costly disk-based solutions and economical but slower, less reliable tape solutions. ArcFiniti gives you the best of both worlds—the reliability, easy management, and quick data access of disk—all at a fraction of the cost of transactional storage. Plus you get all the advantages of unprecedented reliability, scalability, efficiency and low power and cooling consumption.



ArcFiniti

ArcFiniti System Specifications

www.sgi.com/arcfiniti

Specifications	
Archive Access	NFS v3 over TCP
Memory, I/O and Storage	A156 – 178TB Max Usable (156TB Archive Tier + 10.2TB*/22TB – Primary Cache) A234 – 256TB Max Usable (234TB Usable Archive Tier + 10.2TB*/22TB – Primary Cache) A468 – 490TB Max Usable (468TB Usable Archive Tier + 10.2TB*/22TB – Primary Cache) A936 – 970TB Max Usable (936TB Usable Archive Tier + 22.2TB*/34TB – Primary Cache) A1404 – 1.44PB Max Usable (1.4PB Usable Archive Tier + 34.2TB*/46TB – Primary Cache)
Ethernet Ports	A156 – Two GbE, two 10GbE A234 – Two GbE, two 10GbE A468 – Two GbE, two 10GbE A936 – Four GbE, four 10GbE A1404 – Six GbE, six 10GbE
System Weight	Maximum system weight (A1404): 2826 lbs
Rack Dimensions	Width 30" (76.2 cm) Depth 48" (121.9 cm) Height 87" (221 cm)
Minimum Clearance	Front – 40" (101.6 cm) Rear – 36" (91.4 cm)
Power	200 – 240 V, 30 AMP, 3-phase (North America) 200 – 240 V, 40 AMP, single phase (EMEA, Asia Pacific) 380 – 400 V, 30 AMP, 3-phase (EMEA, Asia Pacific)
Operating Temperature	50–95 °F (10 – 35 °C)
Humidity	8%–80% non-condensing

Feature	Benefit
Fully Integrated	ArcFiniti is an all-in solution with everything needed to begin implementing a content preservation strategy. Many archivers are a combination of parts that requires significant on-site integration or IT intervention to effectively operate. ArcFiniti is purpose-built for archiving with minimal set-up required.
Easy to use	Archiving that is difficult to use will not be effectively used. ArcFiniti is designed so that all files are visible to users via high-performance network connections. ArcFiniti transparently manages the integrity of the files, placement in the correct tier and availability. The users just access it like a conventional array.
Scalable Configurations for maximum density and flexibility	Archives may start small, but inevitably will grow. ArcFiniti has 5 different configurations ranging from 178TB to 1.44PB (uncompressed) usable space in a single rack to enable growth in capacity and in network throughput. See the configurations tab for more detail.
Affordable disk-based solution that offers accessibility and data integrity advantages over tape	While tape is great for some types of data storage, for long-term preservation and immediate access an affordable disk-based solution offers the greatest flexibility. ArcFiniti is designed to provide a low-cost option to tape without the risks.
High-performance NFS access enables easy consolidation of archives across multiple application and compute environments	Multiple Gigabit Ethernet and 10Gigabit Ethernet ports in each of the 5 different ArcFiniti models enables high-volume throughput and maximum flexibility.
Automated, policy-based tier virtualization to minimize storage costs	Each ArcFiniti model contains a Primary Cache of high-speed disk as well as an Archive Tier for long-term retention. All files are visible as on-line and available at all times. ArcFiniti manages the migration and data integrity checks to ensure that data is stored in the right tier for maximum protection and cost savings.
Pro-active data protection	ArcFiniti uses unique features such as pro-active hardware health monitoring and data integrity verification to ensure the long-term viability of your most important business information.

ArcFiniti comes in 5 factory-configured models to suit any archive environment. Lower-capacity models can be upgraded to higher capacity, maxing out at just over 1.4PB of usable archive in a single rack.

Five ArcFiniti Configurations

Model Number	A156	A234	A468	A936	A1404
Max Usable Capacity	178TB	256TB	490TB	970TB	1.44PB
Primary Disk Cache	10.2TB 22TB*- Opt	10.2TB 22TB*- Opt	10.2TB 22TB*- Opt	22.2TB 34TB*- Opt	34.2TB 46TB*- Opt
Power Managed Archive Tier (Usable)	156TB	234TB	468TB	936TB	1.4PB
GigE Ports	2	2	2	4	6
10GigE Ports	2	2	2	4	6

* Standard configuration. Optional 12TB of additional cache capacity available

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